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How to use the FORESJ LATEX class

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This sample is a guideline for preparing technical papers using LATEX for submitting manuscripts to Forestry. It contains the documentation for the Forestry LATEX class file, which implements the layout of the manuscript for FORESJ journal. This sample file uses a class file named FORESJ.cls which we recommend authors use during their manuscript preparation.

Introduction

This LATEX class file is available for the authors to prepare the manuscript for Forestry. It is assumed that the authors are familiar with either plain TeX, LATEX, $\mathcal{A}_{M}\mathcal{S}$ -TeX or a standard LATEX set-up, hence, only the essential points are described in this document. To get more details please go through the LATEX User's Guide or The not so short introduction to LATEX 2ε (which is available online).

Installation

The FORESJ.cls has to be copied into a directory where T_EX looks for input files. The other files must be kept as a reference during the preparation of your manuscripts. Please use pre-defined commands for title, authors, address, abstract etc. as shown in Box 1.

How to start using FORESJ.cls

Before you type anything that actually appears in the paper, you need to include a \documentclass{FORESJ} command at the very beginning followed by, the two commands that have to be part of any IATEX document, \begin{document} at the start, and \end{document} at the end of your paper. The main structure of your document should be as follows:

Box 1: Structure of a document.

```
\documentclass{foresj}
\D0I{xxxxx}

\Year{2012}
\begin{document}

\title[verso running head]{....}

\author[recto running head]{First author,$^{1}$ and Second author$^{2}$}

\affiliation{$^{1}$First author address \\
$^{2}$Second author address}
```

```
\corres{$^{\ast}$Corresponding author. E-mail: tim\_albaugh@ncsu.edu}

\date{\rec{2 February 2012}}

\begin{abstract}
.....
\end{abstract}

\maketitle

\section{....}
....
\subsection{....}
....
\end{document}
```

Preamble part

Please follow the coding for the preamble part as shown in Box 1.

However, by default the class file will produce 1.5 line spacing with one column layout. To get the final formatting of the article i.e. two column layout, please use the command \documentclass[final]{foresj}. Also, the class file will print the line numbers in margins.

 $Paper\ Title$

The paper title is declared using $\texttt{\title{...}}$ in the standard LATEX manner. Line breaks $\texttt{\title}$ may be used to equalize the length of the title lines.

Author Names

The name and associated information is declared with the **\author** command. For more details about author information, see Box 1 on page 2.

Body part

Sections

The coding for section is \section{text}. By default the section numbering has been suppressed in the template. If you want to make cross references to the section levels, use the \label and \ref command. You can have sections up to five levels.

The sectioning commands are \section, \subsection, \subsection, \paragraph, and \subparagraph.

Figures and tables

Use the default \LaTeX coding for figures and tables. Figure and table environments should be inserted after the end of the paragraph, nearest to the citation.

The coding for figures is:

```
\begin{figure}
\includegraphics{sample.eps}
\caption{Insert figure caption\label{fig1}}
\end{figure}
```

[†] To turn line numberings off, authors should use the "\nolinenumbers" command in the preamble

The coding for tables is:

```
\begin{table}[!h]
\processtable{An Example of a Table.}
%%%Table caption goes here
\label{table_example}
\centering
{\begin{tabular}{|c||c|}
%%%The number of columns has to be defined here
\hline
One & Two\\ %%%% Table body
\hline
Three & Four\\%%% Table body
\hline
end{tabular}}{}
\end{table}%%End of the table
```

As always with LATEX, the \label must be after the \caption, and inside the figure or table environment. The reference for figures and tables inside text can be made using the \ref{key} command.

Equations

Equations are used in the same way as described in the LATEX manual. Equations are numbered consecutively, with equation numbers in parentheses flush right.

For example, if you type

```
\label{eq1} $$ \inf^{r_2}_0 F(r,\sqrt{0})\mathbb{d}^{n+\frac{d}r},\mathbf{d} \end{aligned} $$ \operatorname{constant}_{0} = [\operatorname{constant}_{0}]\int^{\infty}_{0} \exp(-\lambda z_{j-z_{i}})\operatorname{constant}_{0} (\lambda z_{j-z_{i}})\operatorname{constant}_{0} \end{aligned} $$ J_0(\lambda z_{i},\lambda) \end{equation}
```

then you will get the following output:

$$\int_0^{r_2} F(r,\varphi) dr d\varphi = \left[\sigma r_2 / (2\mu_0) \right] \int_0^{\infty} \exp(-\lambda |z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_i \lambda d\lambda)$$
(1)

AMS-IATEX has several environments that make it easier to typeset complicated multiline displayed equations. These are explained in the AMS-IATEX User Guide. A subequation environment is available to create equations with sub-numbering of the equation counter. It takes one (optional) argument to specify the way that the sub-counter should appear.

Quotes and displayed text

Quotes are indented from the left and right margins. There are various types of quotes, short quote, long quote, and display poetry.

The coding for a short quote is: \begin{quote}...\end{quote}.

This is a short quotation. It consists of a single paragraph of text. See how it is formatted.

The coding for a long quote is: $\ensuremath{\verb|long|}$ (quotation)... $\ensuremath{\verb|long|}$

This is a longer quotation. It consists of two paragraphs of text, neither of which are particularly interesting. This is the second paragraph of the quotation. It is just as dull as the first paragraph.

Listings

Another frequently displayed structure is a list. There are various types of list: numbered, description, and bulleted lists. The coding for a bulleted list is as follows:

```
\begin{itemize}
\item Bulleted list 1
\item Bulleted list 2
\item Bulleted list 3
\end{itemize}
```

The coding for a numbered list is as follows:

```
\begin{enumerate}
\item Numbered list 1
\item Numbered list 2
\item Numbered list 3
\end{enumerate}
```

The coding for a description list is as follows:

```
\begin{description}
\item Description list 1
\item Description list 2
\item Description list 3
\end{description}
```

The description environment can also be used with modifier arguments for \item, coded as follows:

```
\begin{description}
\item{yes:} affirmative.
\item{no:} negative.
\end{description}

to yield:
  yes: affirmative.
  no: negative.
```

Enunciations like theorem, lemma etc.

The $\mathcal{A}_{\mathcal{M}}S$ -IATeX package for enunciations (amsthm.sty) has been already loaded in the class file. The command $\mbox{newtheorem{theorem} fine class}$ has to be defined in the preamble .

To get the theorem environment, use the following coding:

```
\begin{theorem}
Theorem text. Theorem text. Theorem text.
Theorem text. Theorem text. Theorem text.
```

Similarly, we can define for lemma, corollary, proposition, definition, etc.

Cross-referencing

LATEX provides the following commands for cross referencing:

\label{marker}, \ref{marker}, \eqref{marker} and \pageref{marker}

where marker is an identifier chosen by the user. LATEX replaces \ref by the number of the section, subsection, figure, table, or theorem after which the corresponding \label command was issued. \pageref prints the page number of the page where the \label command occurred.

Citations

Citations are made with the commands \cite,\citep,\citet etc. In this class file, we have used natbib.sty for cross references, and reference style.

For bibliography, the natbib package has been defined in the template as \usepackage[authoryear] {natbib} command. For more details about natbib.sty can be found at http://ctan.org/tex-archive/macros/latex/contrib/natbib/

Acknowledgements

Acknowledgements and other unnumbered sections are created using the \section* command:

\section*{Acknowledgment}

References

The reference entries can be LATEX typed bibliographies or generated through a BIBTEX database. BIBTEX is an adjunct to LATEX that aids in the preparation of bibliographies. BIBTEX allows authors to build up a database or collection of bibliography entries that may be used for many manuscripts. They also save us the trouble of having to specify formatting. More details can be found in the BIBTEX Guide. Forestry has its own BIBTEX file (Foresj_bst_HOWTO.pdf), available online. For LATEX reference entries use the \begin{thebibliography}..\end{thebibliography} environment (see below) to make references in your paper.

Note: After the .bbl file was generated, authors must attach the .bbl file, or they can copy the contents of .bbl file into the LATEX file, and this needs to be placed with a \thebibliography environment as shown below:

```
\begin{thebibliography}
\bibitem[Bross(1954)]{bib1}
{Bross, I.} (1954). Misclassification in $2\times 2$ tables. \textit{Biometrics} \textbf{10}, 478--86.
\bibitem[Canonicao et~al.(2008)]{bib2}
{Canonicao, M., Oli\'{e}, V., Carcaillon, L., Tubert-Bitter, P. \& Scarabin, P.- Y.} (2008).
''Synergism in between Non-O Blood Group and Oral among Postmenopausal Women: The ESTHER Study.''
\textit{Thromb. Haemost.} 99, 246--8.
\bibitem[Cheng \& Lin(2009)]{bib3}
{Cheng, K. F. \& Lin, W. J.} (2009). ''The Effects of Misclassification in Studies of Gene-Environment Interactions.'' \textit{Hum. Hered.} 67, 77--87.
\bibitem[Cordell(2009)]{bib4}
{Cordell, H. J.} (2009). ''Detecting Gene-Gene Interaction that Underlie Human Diseases.''
\textit{Nature Rev. Genet.} 10, 392--404.
\end{thebibliography}
```

Formatting

One should always use \LaTeX macros rather than the lower-level \TeX macros like \LaTeX that \LaTeX macros offer much improved features. The following table summarizes the font selection commands in \LaTeX .

LATEX text formatting commands

\textit	Italics	\textsf	Sans Serif
\textbf	Boldface	\textsc	Small Caps
\texttt	Typewriter	\textmd	Medium Series
\textrm	Roman	\textnormal	Normal Series
\textsl	Slanted	\textup	Upright Series

LATEX math formatting commands

\mathit	Math Italics	\mathfrak	Fraktur
\mathbf	Math Boldface	\mathbb	Blackboard Bold
\mathtt	Math Typewriter	$\mbox{\mbox{\it mathnormal}}$	Math Normal
$\mbox{\mbox{\tt mathsf}}$	Math Sans Serif	\boldsymbol	Bold math for Greek letters
\mathcal	Calligraphic		and other symbols

Macro packages

The commonly used packages which you may find most useful

amsmath	graphicx	rotating
amssymb	endnotes	subfigure
amsfonts	setspace	array
xspace	latexsym	url
amscd	multicol	algorithm

Additionally, you can use other packages and these should be loaded using the \usepackage command in the preamble.

A Appendix

The \appendix command signals that all following sections are appendices, and therefore the headings after \appendix will be set as appendix headings.

Note: All the figures, tables, equations, and enunciations will be automatically numbered as A.1, A.2, etc. in the appendix section.